

Johnston
file:
ARCO SOHIO

Meeting: ARCO SOHIO with EPA Personnel (see attachment)

Date: June 12, 1979

The facilities and supporting equipment currently in the Prudhoe field are driven by natural gas turbines whose power totals 600,000 horsepower. They are now proposing to install additional facilities whose power will total approximately 400,000 HP. Construction will commence in May 1980 and is anticipated to start up 1984-85. The commitment for this project will be made in December at which time a PSD permit would like to be in hand.

The Companies have broken this project down into two phases. The first phase, Increment II, will maintain field production at the present rate. PWI (produced water injection) and production maintenance, the addition of gas turbines, will hopefully be on line by 1984. Test separation heaters (250×10^6 BTU/hr) will separate the gas and oil and pass the gas to gathering centers which in turn supply the turbines.

The second project, Water Flood, will utilize 2.2×10^6 barrels of sea water from the treatment plant and inject the hot water into these wells to increase production.

The Radian Corporation is conducting the air quality modeling analysis which started in March of '79. They have determined that worse case conditions occur during the summer months. They wish to monitor for this quarter only because this represents the highest periods of concentration. Briggs calculation will be used at 70% to model gas turbines along with RADM and CRSTER for diurnal mixing .

USEPA REG



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ARCO / SOHIO

JULY 12, 1979

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Mail Stop 513

MAY 15 1979

Dr. Joseph A. Sonneman
324-A S. Willoughy
Juneau, Alaska 99801

Dear Mr. Sonneman:

Thank you for your letter of March 29, 1979 concerning EPA's preliminary determination to approve the addition of eleven gas turbines to the Prudhoe Bay complex. A copy of your letter has been sent to Atlantic Richfield Company and SOHIO Petroleum Company to make them aware of your concerns.

Please be assured that your comments will be fully considered when the final determination is made on this project. A copy of our final determination will be sent to you when the final determination process of approvability is made.

Sincerely,

Michael M. Johnston, Chief
New Source Permit Section

cc: Thomas R. Hanna, ADEC
Bob Chivvis, AOO
P.B. Norgaard, ARCO
G.N. Nelson, SOHIO

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CONCURRENCES

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